



# Optical Talk Set

## *FTK-100*

FTK-100 provides on-site communication for people in the field by transmitting voice into modulated optical signal through the fiber link.

## *Main Features*

- Full duplex communication over SM fiber
- Voice communication from any point of a fiber with a clip-on coupler to the control room
- Multi-party communication function
- Adjustable head set volume
- Digital communication with minimized line noise
- Automatic signal detection and ringing function to alert operator
- Auto-off function for battery saving
- Three power options: Rechargeable Ni-MH battery, Alkaline battery, and AC adapter



Frederick Engineering, Inc.



Phone: 410-789-7890

[www.fetest.com](http://www.fetest.com)

## Specifications

Item \ Model	FTK-110	FTK-120
Communication	Full Duplex	
Central Wavelength	1310 +/- 30 nm	1550 +/- 30 nm
FWHM	≤ 5 nm	
Emitter Type	Laser Diode	
Transmission Distance	≥ 80 km	≥ 120 km
Dynamic Range	40dB ( 9/125μm )	
Output power (typ.)	≥- 4.5dBm ( 9/125μm )	
Output Stability (typ.)	+/- 0.1dB , +/- 0.25 ( 1/8hr )	
Temperature	+/- 0.02 dB / °C	
Modulation Mode	PCM	
LED Indicators	Tx,Rx,CW/2 kHz, Low Battery, Power On	
Fiber Connector	FC	

Frederick Engineering, Inc.  
832 Oregon Avenue, Suite M  
Linthicum, MD 21090



[www.fetest.com](http://www.fetest.com)

Phone: 410-789-7890  
Fax: 410-789-7670  
e-Mail: [fe@fetest.com](mailto:fe@fetest.com)